ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE REGULATORY CONTACT RECORD

Date/Time:

March 11, 2002; 12:15

Site Contact(s):

Kathy Zbryk

Phone:

(303) 966-6647

Regulatory Contact: James Hindman

Phone:

(303) 692-3345

Agency:

CDPHE

Purpose of Contact: Revised Absorption of Criticality Drain Oil

Discussion

This contact record serves as update to the contact record issued on December 10, 2001 regarding the absorption of criticality drain oil using Nochar Petro Bond $^{\text{TM}}$. After performing in-situ solidification of criticality drain oil while the criticality drain was still attached to the glovebox, it has been determined that cutting the criticality drain off of the glovebox and then absorbing the oil may be a more expeditious and effective method. Based on previous discussions, the revised methodology could be considered generator treatment pursuant to 6 CCR 1007-3, §100.21 (d). Treatment would be performed to remove free liquid in order to meet WIPP WAC and not to meet LDR treatment standards; no EPA codes will be removed as a consequence of the process. Since no treatment standards are being met, an integrated work control package has been developed for performing this work and characterization is documented therein. In conclusion, 707 environmental compliance would like approval to commence with this treatment using the integrated work control package.

Pursuant to our conversation on March 11, 2002, this contact and the attached standard work package serve as sufficient information to approve the revised oil solidification process.

Contact Record Prepared By: Kathy Zbryk

Contact Record 12/03/00 Rev. 10/11/00

Required Distribution:

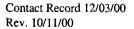
- R. DiSalvo, RFFO
- S. MacCleod, RFFO
- J. Legare, RFFO
- G. Schuetz, RFFO
- G. Nishimoto, RFFO
- N. Newell, CDPHE
- S. Gunderson, CDPHE
- E. Kray, CDPHE
- J. Hindman, CDPHE
- T. Rehder, USEPA
- P. Arnold, K-H 371
- T. Hopkins, K-H 707/776
- C. Gilbreath, K-H 771
- S. Nesta, K-H RISS

- G. Scott, K-H
- D. Shelton, K-H
- K. North, K-H ESS
- J. Berardini, K-H MS
- C. Deck, K-H
- A. Rosenman, K-H ESS
- J. Mead, K-H ESS
- D. Johnson, K-H ESS
- J. Dischinger, RFCSS

Additional Distribution:

- S. Dahlgren, K-H 707/776
- V. Pizzuto, 707
- P. Sasa, 707
- J. Carranco, 707
- R. Caulfield, 707
- G. Martinez, 707
- T. Baker, 707
- R. Bloom, 707
- K. Zbryk, 707





ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

STANDARD WORK PACKAGE COVER SHEET Page 1 of 2

SWP NO. 707-21002-00 WORK PROCESS NO. REVISION NO. 0 TITLE: Solidify and Isolate Crit. Drain_Oil Seals and Force Transmitter Seal Assemblies with NOCHAR on Gloveboxes/Chainveyors in Bldg. 707 Facility Complex. Planner: Steve Basehore / x2055, p2040 Signaturë Dete **CONCURRENCE:** Based on my personal review, I agree that the work described in this package meets technical requirements under my cognizance, and contains the controls form the JHA. Responsible: Signature Date Organization H&S: Engineering: Rad Safety: Crit Safety: Nuc Safety: **Environmental** Name Date Signature Compliance: Waste: Fire Protection: Config. Control: Date Authority Quality: Date Facility Mgr: Signature (or designee) ISR: ISR Meeting No. (Review Only) APPROVAL: Based on my personal review, and the concurrence of the above technical experts, I agree that the work described in this package meets technical requirements, can be performed safely and contains all of the required controls from the JHA. Responsible: Name Signature Manager (Rep)

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

STANDARD WORK PACKAGE COVER SHEET Page 2 of 2

SWP NO. 707-21002-00 WORK PROCESS NO. REVISION NO. 0 TITLE: Solidify and Isolate Crit. Drain Oil Seals and Force Transmitter Seal Assemblies with NOCHAR on Gloveboxes/Chainveyors in Bldg. 707 Facility Complex. **SWP USE AUTHORIZATION:** If SWP used for TS/R work, signature indicates that specific limitations and boundaries on repair activities have been clearly identified. Use of this Standard Work Package (SWP) is authorized for the work specified by the Work Control Form contained herein. Work must be started within 90 calendar days. Responsible: Signature Date Manager (Rep) **CLOSURE CONCURRENCE:** Based upon my personal review of this work package and inspection of the work site, all of the work and retest specified in this package has been satisfactorily completed. Job Supervisor: **Engineering:** Config. Control Signature Authority Quality Name Signature

Responsible: / / //
Manager (Rep) Name Signature Date

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Section 2 TABLE OF CONTENTS/LIST OF EFFECTIVE PAGES

SECT	ΓΙΟΝ	TITLE	PAGE NO.	REV.
1.	Work Package C	over Sheet	1-2	0
2.	Table of Contents	s/List of Effective Pages	11	0
3.	Work Process Fo	rm	1	0
4.	Engineering Drav	vings and Specifications	1-2	0
5.		Prawings and References		
6.	Material Requirer			
7.		ol Requirements/PPE/Training	1	0
8.		Prerequisites		
9.	Specific Task Ins	tructions	1	0
10.	Post Work Testin	g Instructions	1	0
	Appendix 1	Hazard & Discipline Identification Tool Ch	necklist (HDIT) / Job	Hazard Analysis (JHA)
	Appendix 2		` '	• • • • • • • • • • • • • • • • • • • •
		Miscellaneous And Field Generated Pape	erwork Record	
		Pre-Evolution Briefing (PEB) Record		
		Post Job Review (PJR) Checklist & Instru	ictions	
		Criticality Drain Seal Solidification Instruc		
		Force Transmitter Seal Solidification Instr		
	Appendix 8	==:		

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Section 3 WORK PROCESS FORM

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Section 4
ENGINEERING DRAWINGS / SPECIFICATIONS

Section 5

LIST OF REQUIRED DRAWINGS AND REFERENCES

PERFORMANCE REFERENCES

REF/DRAW NO	DESCRIPTION	REV.#	EFFECTIVE
4-B22-FO-0010	707 Glovebox Operations	2	02/29/00
4-P14-FO-0020	Chainveyor Operations, Bldg.707	0	03/01/95
11876-0003	Criticality Drains for Mechanical Gloveboxes/chainveyors Cover		
	Plate and Type 3 Crit. Drain Installation	K	07/18/01
20371-19	Force Transmitter Seal Assembly	Α	10/21/71

DEVELOPMENTAL REFERENCES

REF/DRAW NO	DESCRIPTION	REV.#	EFFECTIVE
MAN-071-IWCP	Integrated Work Control Program Manual	3	10/30/00
MAN-066-COOP	Site conduct Of Operations Manual	1	10/30/00
MAN-072-OS&IH PM	Occupational Safety & Industrial Hygiene Program Man	ual 0	02/15/01
1-PRO-079-WGI-001	Waste Characterization, Generation and Packaging		12/21/00
3-PRO-165-RSP-07.02	Contamination Monitoring Requirements		02/17/98
PRO-872-HSP-31.15	Control of Generated Flammable Gas		12/20/00
MAN-094-TPM	Training Program Manual	1	05/15/01
MAN-102-SRCM	Radiological Control Manual	1	10/15/00
3-PRO-229-RSP-01.01	Radiological Work Permit	0	03/10/98
3-PRO-160-RSP-04.02	Air Sampling		02/22/99
PRO-536-BCPR	Beryllium Characterization Procedure	0	09/01/99
OO-707/776-001	Building 707/776/777 Implementation of the Site CBDPI		05/14/01
PRO-267-RSP-09.05	Radiological Characterization For Surface Contaminate		
	Objects	_	05/04/01

LESSONS LEARNED

The LL/GI database has the following lessons learned are applicable to this activity:

SD-98-1197 Loss of Negative Pressure in Glovebox 226, Room 157 SD-96-0849 Equipment-Criticality Drain Broken Off Glovebox

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3VV F	NO. <u>707-21002-00</u>	Section 7	
7	LIST OF SPECIAL TOOL RE	EQUIREMENTS/PPE/TRAINING	
7.1	SPECIAL TOOLS REQUIRED	•	
	As required by Job Supervisor:		
	•	<u> </u>	
	•	·	
7.2	RWP PERSONNEL PROTEC	TIVE FOILIDMENT (DDF)	
1.2	Cotton liner	TIVE EQUI MEIOT (TTE)	
	Rubber gloves		
	Shoe covers		
	 Rubber overshoes 		
	Anti-C coveralls	A REPORT OF THE PROPERTY.	
	 SARANEX sleeves and Vito Additional RWP PPE as listed: 	on gloves when potential for liquid releases	
NOT	E: PPE listed is the minimum requ & Safety and Radiological Safe	ired. Additional PPE may be added and documen ty concurrence.	nted with Industrial Health
7.3	PERSONNEL PROTECTIVE	EQUIPMENT (PPE)	
	Additional PPE as identified by	Job Supervisor:	
7.4	TRAINING REQUIREMENTS		
	Job Supervisor SHALL list addit	or some or all of the workers depending on the ta- cional specialized training below:	sk being performed.
	Additional Specialized Training	as listed:	

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Section 8

8 INITIAL CONDITIONS/PREREQUISITES

8.1 PURPOSE:

The purpose of this Standard Work Package is to provide instructions for solidifying the oil using NOCHAR in criticality drain seals and force transmitter seals on Building 707 gloveboxes/chainveyors. These seals can then be isolated and removed as required to support glovebox/chainveyor removal operations.

8.2 SCOPE:

- Measure NOCHAR powder and place inside plastic bags.
- Remove drip pans from the criticality drain.
- Install plastic bags around criticality drain and/or force transmitter seal assembly on glovebox/chainveyor.
- Solidify the criticality drain oil seal and/or force transmitter seal assembly using NOCHAR.
- Isolate and remove criticality drain from glovebox/chainveyor.
- Isolate force transmitter seal assembly on glovebox.

NOTE: This solidification methodology cannot be applied to intact J-type criticality drains, only cup-type criticality drains.

8.3 PRECAUTIONS AND LIMITATIONS

- 8.3.1 Construction, inspection and removal of scaffolding **SHALL** be performed in accordance with (IAW) MAN-072-OS&IH PM Chapter 40 and logged into the "Work Package Status Log", Appendix 2.
- 8.3.2 Any work on ladders will be evaluated by IH&S IAW OS&IH PM Ch. 39.
- 8.3.3 Glovebox decontamination and encapsulation should be performed inside glovebox/chainveyor prior to removing criticality drain.
- 8.3.4 All waste shall be disposed of in accordance with Waste Generating Instruction (WGI) applicable for the given waste stream. Approved waste containers for the waste expected shall be set up and available in accordance with WGI. (Ensure packaging meets HSP 31.15 requirements.)
- 8.3.5 One cubic foot of NOCHAR is considered a combustible fuel package. Appropriate spacing requirements must be maintained equivalent to plastic in accordance with PRO-1322-707/778-FIRE-INSP, Building 707/778 Weekly and Monthly Fire Safety Inspections. Use in ventilated area. Dispose criticality drains solidified with NOCHAR in vented waste containers.
- 8.3.6 Avoid generating dust clouds when handling NOCHAR powder.
- 8.3.7 IH&S should be notified to perform sound level monitoring to determine noise level controls. Anytime a power tool or a devise is used that renders the LSDW system inaudible OPS ORDER OO-707-210, LIFE SAFETY/DISASTER WARNING (LS/DW) SYSTEM SUPERVISORY MUSIC INAUDIBLE/LOSS COMPENSATORY MEASURES and PRO-1426-707-776-CRIT-COMP, CAAS ANNUNCIATION DEFICIENCY COMPENSATORY MEASURES, BUILDINGS 707/776/777 will be in effect.

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Section 8

8.4 PRELIMINARY ACTIONS

ENGR / Print Name / Signature / Date 2 CSO / CSE The criticality drain(s) is not required per applicable CSOL(s) for glovebox(es)/chainveyor(s) ider on Work Process Form. CSO/CSE / / Print Name Signature Date 3 CCA List below the applicable BIO/TSR Section(s) and their remedial actions. CCA / Print Name Signature Date CCA / Print Name Signature Date TE: All subsequent Steps in Section 8.4 of the Work Package may be worked in any order, as detenthe Job Supervisor. 4 JOB SUPERVISOR Perform the following: A. Perform a walkdown to ensure the hazards and controls listed on the JHA are accurate for the JHA is located in Appendix 1. B. Ensure required personnel are trained and qualified in accordance with the requirements of
Print Name Signature Date CSO / CSE The criticality drain(s) is not required per applicable CSOL(s) for glovebox(es)/chainveyor(s) ider on Work Process Form. CSO/CSE / Print Name Signature Date CCA List below the applicable BIO/TSR Section(s) and their remedial actions. CCA List below the applicable BIO/TSR Section(s) and their remedial actions. CCA Print Name Signature Date TE: All subsequent Steps in Section 8.4 of the Work Package may be worked in any order, as detenthe Job Supervisor. JOB SUPERVISOR Perform the following: A. Perform a walkdown to ensure the hazards and controls listed on the JHA are accurate for the JHA is located in Appendix 1.
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The JHA is located in Appendix 1.
B. Ensure required personnel are trained and qualified in accordance with the requirements of
"Training Requirements" and the Job Hazard Analysis (JHA) in Appendix 1 that indicate "Tra
Required".
C. Varifo Abat all management Constal Table / DDE / Out at a Equity and America 7, "Constal Table / DD
C. Verify that all necessary Special Tools/PPE/Safety Equipment, per Section 7, "Special Tools "PPE" are available for the job.
are available for the job.
D. A copy of the current Material Safety Data Sheets (MSDS) has been reviewed and inserted

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Section 8

	E.		Crates/Drums Re a copy inserted in		as been completed a)	and submit to Waste	Management of	fice in
					,			
	F.	Workshee from the t	et has been comp	oleted and inse	ctions (WGI) has bee rted into Appendix 3 e Force Transmitter	. Obtain criticality d	rains characteriza	
	G.				ion On-The-Job Veri erted into Appendix (has been comple	 eted
	Н.				Radiological Engine prior to disposal of w			and
8.4.5	Re		oncur to Steps 8.		and complete a safe iew JHA in Appendi			
	NU	IC		/		/		
		FETY	Print Name		Signature	ŗ	Date	
8.4.6	Ve		CAL ENGINEERII ALARA Job Rev	, ,	t current revision an	d has been approve	ed for use. (N/A if	not
	Re	view #	·					
	RE	Ī		/		/		
		Pri	nt Name		Signature	Dat	e	
8.4.7			CAL OPERATION Radiological Wo		RVISOR P) is the most currer	nt revision and has	been approved fo	or use.
	RW	VP #						
	RA	/D		1		/		
	OP		Print Name		Signature		Date	

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8.4.8	INDUSTRIAL HYGIENE & SAFETY (IH&S) Perform the following, as applicable, and insecontrols are incorporated into the JHA: (N/A,		endix 3. Ensure new hazards and
	Beryllium Work Form. Perform pre-job Beryllium contamination of for personnel protection and the work are surveys and controls have been complete Controls:	a. Document the required o	
	IH&S/	Signature	/ Date

					•
WPF#		<u> </u>	Page 1 of 1		Rev. <u>0</u>
5VV P	NO. <u>707-21002-0</u>	<u>oo</u>	Section 9		
9 \$	SPECIFIC TAS	K INSTRUCTION			
9.1	PRELIMINARY	ACTIONS			
9.1.1	All required sig	TION CONTROL AUTH Inatures on the cover p Id and authorization is	HORITY page have been obtained, all initing given to commence work.	tial conditions and prerequ	isites have
	CCA	Print Name	/ Signature		_
		Print Name	Signature	Date	
9.2 9.2.1	WORK ACTIO JOB SUPERVI Proceed to App	N STEPS FOR CRI	rmed independently or in conjurt TICALITY DRAINS ON GLO ain Seal Solidification Instruction isolated and removed.	VEBOXES/CHAINVEYO	
9.3	WORK ACTIO	N STEPS FOR FOR	RCE TRANSMITTER SEALS	ON GLOVEBOXES/CH	IAINVEYORS
9.3.1		oendix 7 " <i>Force Trans</i> a	mitter Seal Solidification Instruct e solidified and isolated.	tions" and perform steps, a	s applicable,
9.4	WORK TASK	COMPLETION REV	TEW		
9.4.1	JOB SUPERVI A. Review all		and Appendix 7 (as required) to	ensure work has been cor	npleted.
	B. All work ha	s been completed sat	isfactorily. Proceed to Section 1	0 for Post Work Testing re	quirements.

Signature

Date

JOB SUPER

Print Name

	O. <u>707-21002-00</u> Sectio		Rev. <u>0</u>
10 P	OST WORK TESTING INSTRUCTIONS		
10.1	PURPOSE Post Work Testing was performed in Section 9). This section is for work pac	kage closeout only.
10.2 1	PRECAUTIONS AND LIMITATIONS None.		
10.3	PREREQUISITES None.		
10.4	TASK INSTRUCTIONS None.		
10.5	SYSTEM AREA RESTORATION AND WORK	PACKAGE CLOSEOUT	
10.5.1	JOB SUPERVISOR Perform the following: A. Ensure work area is clean.		
	B. Ensure all generated waste is disposed of pe	r WGI-001.	
	C. Ensure copies of permits, forms, checklists ar Work Permit, etc.)	nd reports have been inserted int	o Appendix 3. (e.g., Rad
	D. Return permits, forms, checklists and reports Work Permit, etc.)	to the appropriate organization o	r department. (e.g., Rad
10.5.2	JOB SUPERVISOR Contact the Planner and complete the Post Job R Chapter 10.3.1.	eview Checklist (Appendix 5) per	MAN-071-IWCP,
10.5.3	JOB SUPERVISOR Perform the following:		
	A. Ensure all data entered has been checked for work package have been inserted back into the		I that all sections of this
	B. Verify that all tasks have been completed sati	sfactory.	
	JOB /	Cionatura	Data
10.5.4	SUPERVISOR Print Name JOB SUPERVISOR	Signature	Date
. 5.5.4	Return this completed work package to the Response	onsible Manager for package clos	eout.

WPF #		
SWPNO	707-21002-00	

Appendix 1 Page 1 of 1 HAZARD AND DISCIPLINE IDENTIFICATION TOOL

WP	F No.:	Title/Description: Solidify and Isolate Force Transmitter Seal Assemblies wit gloveboxes/chainveyors in Bldg. 707 F	h NOCH	IAR on		Date:
Spe	ecific work location: Building 70	07, Module				DISCIPLINE
Doe	es the work activity:		Yes	No		
1.	Occur in a Category 2/3 facility o significant SSC credited in an au		х		Nuclear	Safety
2.	Occur in an area that has or has radioactive contamination, airbor generation devices? Require the radioactive waste or the character	ne contamination, or radiation e unrestricted release of	x		Radiolog Operatio	ical ns/Engineering
3.	Occur in any area that has, has I fissionable material, or involves t nuclear material?	nad, or has the potential to contain the movement or handling of	x		Criticality	Safety
4.	Require design basis modificatio assistance?	ns, design or other engineering	х		Engineer	ing
5.	Occur in a RCRA/CERCLA regularimit? Being performed pursual compliance acts or agreements? roads, or foundations? Occur in Environmental Checklist?	ant to RFCA or other federal Involve disturbance of soils,	x		Environn	nental
6.	Create regulated waste, non-rou radioactive, and/or mixed?	tine sanitary, including hazardous,	X		Waste O	perations
7.	Occur in an area that has a pote controls and/or systems? Involve special nuclear material?	ntial to impact security area e classified information? Involve		X	Safeguai	ds & Security
8.	Have the potential to expose the industrial hygiene related hazard Occupational Safety & Industrial Manual. Examples include: Electrical, mechanical, hydraulic, biological hazards Inhalation or dermal exposure to gases, or fumes High or uncharacterized noise Temperature extremes Asbestos Beryllium Elevations Ergonomic hazards Confined spaces Elevated work Heavy equipment operations Excavation and trenching	Hygiene (OS&IH) Program chemical, physical or	X		Health ar	nd Safety
9.	Involve spark, flame, or heat pro- explosives, flammable gasses, o the protection from fires or fire no sprinkler systems, etc)	r pyrophoric material? Involves	x		Fire Prot	ection
10.	Includes any activities identified Involvement?	in Chapter 2, Section 3.3, QA	х		Quality A	ssurance
11.	Involves the packaging or transp building or movement of material	ortation of materials within a ls or waste outside of a building?		Х	Packagir	g & Transportation

JOB HAZARD ANALYSIS

WPF/Procedure No.:	Title/Description with NOCHAR of	Title/Description: Solidify and Isolate Criticality Drain Oil Seals and Force Transmitter Seal Assemblies with NOCHAR on Gloveboxes/Chainveyors in Bldg. 707 Facility Complex.	ce Transmitter Seal Assemblies ex.	Date: 12/19/01
Company/Organization KH / Maintenance	Location: Bldg.7	Bldg.707, Module		Page 1 of 4
Team Leader (Name / Signature / Date)		Planner (Name / Signature / Date)	H&S (Name / Signature / Date)	
Engineering (Name / Signature / Date)	ate)	Radiological Ops/Engineering (Name / Signature / Date)	Quality Assurance (Name / Signature / Date)	re / Date)
Criticality Safety (Name / Signature / Date)	e / Date)	Nuclear Safety (Name / Signature / Date)	Environmental (Name / Signature / Date)	Date)
Waste Operations (Name / Signature / Date)	ıre / Date)	Fire Protection (Name / Signature / Date)	Packaging & Transportation (Name / Signature / Date)	/ Signature /
Safeguards & Security (Name / Signature / Date)	nature / Date)	Lead Craft / Operator (Name / Signature / Date)	Other (Organization / Name / Signature / Date)	ture / Date)
Other (Organization / Name / Signature / Date)	ature / Date)	APPROVED: RM (Name / Signature / Date / Organization)	ation)	
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Signature indicates participation in the JHA. RM approval indicates that the SMEs are competent to perform their function. RM approval also indicates that the controls are synergistic and the implementation of a control has not created or amplified another hazard.

(Effective 05/04/01)

Continuation Sheet

APPENDIX 1, Rev.0	JOB HAZARD ANALYSIS
X 1, Rev	HAZARD ANA

WPF/Procedure No.:	tle/Descr	Title/Description: Solidify and Isolate Criticality Drain Oil Seals and Force Transmitter Seal Assemblies with NOCHAR on Gloveboxes/Chainveyors in Bldg. 707 Facility Complex.	Oil S		Date: 12/19/01
ЭЭ	Location: B	Bldg.707, Module			Page 2 of 4
BASIC JOB STEP	Potenti	ential Hazard		REQUIRED CONTROLS	
Measure NOCHAR into plastic bags.	· S	Combustible fuel package if greater than 1 cubic foot.	•	Treat NOCHAR as equivalent combustible load to plastic. Maintain less than 1 cubic foot of NOCHAR (cumulative) within a 5 foot distance of other combustibles, radioactive materials, and ignition sources.	ble load to plastic. IAR (cumulative) tibles, radioactive
		Hydrogen generator in the presence of Plutonium.	•	Use in ventilated area to remove Hydrogen gasses. Dispose of criticality drains solidified with NOCHAR in vented waste containers.	gen gasses. h NOCHAR in
Remove crit-drain drip pans.	•	Cuts to hands.	•	Cut resistant gloves shall be worn, as required.	quired.
Secure the plastic bags around critdrain.	•	Possible Exposure to Radiological Contamination.	• •	Follow RWP RCT shall verify all contamination containments as required.	inments as
Unlatch the crit-drain shroud cover and open. If necessary remove cover.	and	Cuts to hands. Possible release and contact with small amount of oil from crit-drain. Possible Exposure to Radiological Contamination.	• • •	Cut resistant gloves shall be worn, as required. Follow RWP SARANEX PPE shall be worn as directed by Radiological Operations.	equired. ed by Radiological
Bag in operations for NOCHAR bag into the glovebox.					
Remove the crit-drain cover inside the glovebox.	• • •	Cuts to hands.	•	Cut resistant gloves shall be worn, as required.	quired.



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(Effective 05/04/01)

APPENDIX 1, Rev.0 JOB HAZARD ANALYSIS

JOB HAZAR

Continuation Sheet

WPF/Procedure No.: Title/D.	Title/Description: Solidify and Isolate Criticality Drain Oil Seals and Force Transmitter Seal Assemblies with NOCHAR on Gloveboxes/Chainveyors in Bldg. 707 Facility Complex.	Oil Se	als and Force Transmitter Seat Date: 31dg. 707 Facility Complex.	10/6
Company/Organization Location:	Bldg.7(Page 3 of 4
BASIC JOB STEP	Potential Hazard	Œ	REQUIRED CONTROLS	
Open the bag of NOCHAR inside the glovebox and add the NOCHAR powder into the crit-drain.				
At the crit-drain location outside the glovebox, add the NOCHAR powder into the crit-drain. Using the mixing tool stir the NOCHAR into the oil.	 Possible release and contact with small amount of oil from crit-drain. Possible Exposure to Radiological Contamination. 	• • •	Apply NOCHAR material to absorb any spills. SARANEX PPE shall be worn as directed by Radiological Operations. Follow RWP.	adiological
Bag sleeve crit-drain at the cut location. Cut and remove crit-drain from glovebox.	 Possible Exposure to Radiological Contamination. Cuts to hands. LS/DW Impairment (High Noise Area). 	• • • •	Follow RWP RCT shall verify all contamination containments as required. Cut resistant gloves shall be worn, as required. Appropriate hearing protection. IH&S to perform sound level monitoring. Follow compensatory measures per Operations Order OO-707-210, and PRO-1426-707-776-CRIT-COMP.	s as n sound o Order OMP.
Install containment for Force Transmitter Seal Solidification.	 Personnel injuries resulting from slips, trips and falls. Possible Exposure to Radiological Contamination. 		IH&S to evaluate ladder use. Set up barriers/signs around work areas, as required. Follow RWP RCT shall verify all contamination containments as required.	quired.

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JOB HAZARD ANALYSIS APPENDIX 1, Rev.0

Continuation Sheet

SARANEX PPE shall be worn as directed by Radiological SARANEX PPE shall be worn as directed by Radiological Page 4 of 4 Date: 12/19/01 RCT shall verify all contamination containments as Apply NOCHAR material to absorb any spills. Apply NOCHAR material to absorb any spills. Title/Description: Solidify and Isolate Criticality Drain Oil Seals and Force Transmitter Seal Assemblies with NOCHAR on Gloveboxes/Chainveyors in Bldg. 707 Facility Complex. Note: the fourth column is not required, but may be used to identify the location of the controls if desired. REQUIRED CONTROLS Follow RWP. Follow RWP. Follow RWP. Follow RWP. Operations. Operations. required. Possible Exposure to Radiological Possible Exposure to Radiological Possible Exposure to Radiological Possible Exposure to Radiological Possible release and contact with Possible release and contact with small amount of oil from force small amount of oil from force transmitter seal. transmitter seal. Contamination. Contamination. Contamination. Contamination. Bldg.707, Module POTENTIAL HAZARD Location: Open the bag of NOCHAR inside the Reassemble components back onto Remove the component from force containment and add the NOCHAR powder into the Force Transmitter Seal. Using the mixing tool stir the NOCHAR into the oil. transmitter assembly to expose oil Seal remaining containment over Force Transmitter Assembly by applying a heavy layer of tape. KH / Maintenance force transmitter assembly. BASIC JOB STEP Company/Organization WPF/Procedure No.: reservoir.

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Appendix 2 Page __ of __ WP STATUS LOG

STEP NO.	ENTERED BY	DATE/TIME	COMMENTS/ACTION TAKEN
_	T-11-4	_	7 - 4 1 2 4 4 4 4 4 4 4 4 4
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_			WARANA COLOR
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Appendix 2 Page __ of __ WP STATUS LOG

STEP NO.	ENTERED BY	DATE/TIME	COMMENTS/ACTION TAKEN
			1 4/44
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Appendix 3 Page ___ of __ MISCELLANEOUS AND FIELD GENERATED PAPERWORK RECORD

DOCUMENT	DESCRIPTION	PAGES

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Appendix 4 Page 1 of 4 PRE-EVOLUTION BRIEFING RECORD

Evol	ution Description:				
Evolu	ution Supervisor:				
A.	*Date/Time of PEB:				
B.	*Applicable Procedure Number/Work Package Number:				
C.	C. *Personnel Attending (Filled-in here, or attach an attendance roster):				
<u>NAM</u>	E EMPLOYEE # PROJECT NAME EMPLOYE	E# PROJECT			
		10 100 100 100 100 100 100 100 100 100			
	Briefing Check-Off List:	INITIALS			
1.	The evolution is scheduled on the POD.				
2.	The trainee to instructor ratio is as authorized by the FM.				
3.	Evolution Supervisor has conducted a walkdown for new or comple evolutions if not previously dry-run	x			
4.	Participants have the procedures, work package, or other documents needed.				

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Appendix 4 Page 2 of 4 PRE-EVOLUTION BRIEFING RECORD

5.	The necessary documents are available for use at the PEB and are current (e.g., CSOL/NMSL, Material Safety Data Sheets, RWP, criticality safety analyses, etc.).	
6.	*Evolution Supervisor briefs changes to procedures that have occurred since the activity was last conducted.	
7.	Necessary personnel are in attendance. Trainee limitations on operating equipment/taking rounds/making log entries discussed.	
8.	*The scope of the evolution to be performed including LO/TO requirements and responsibilities of each individual identified and discussed. Procedure covered in sufficient detail to ensure participants understand the evolution, and their role. If multiple work groups are involved with interfacing activities, specific work scopes, interfacing procedures, and coordination of the groups discussed.	
9.	*Current facility conditions, impacts of other evolutions, and impacts of this evolution on ongoing work discussed with SM. Additionally, for nuclear facilities, impacts of this evolution on the AB discussed with the SM	
10.	The precautions, limitations, initial conditions, and prerequisites were reviewed.	
11.	Adequate communications equipment available.	
12.	The required tools and equipment are available.	
13.	Portable instruments are available (if required).	
14.	Personnel taking, receiving, or transmitting data are familiar with the data requirements.	
15.	Expected instrument readings discussed (if applicable).	
16.	Appropriate material transfer, and data recording forms are available.	
17.	*Discuss expected Item Description Codes (IDC), and action to take if other IDCs are encountered.	

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Appendix 4 Page 3 of 4 PRE-EVOLUTION BRIEFING RECORD

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18.	Are hazardous materials involved? [] Yes [] No (if answer is no, continue the briefing check-off list. If yes, complete and discuss Appendix 5, Hazardous Material Release Prevention/Preparedness Checklist, and continue the briefing check-off list).	
19.	Hazards associated with the evolution and PPE/safety equipment discussed. Location of eyewash and safety showers, and spill kits discussed (<i>if applicable</i>); heat stress/cold stress briefing per, Occupational Safety & Industrial Hygiene Program Manual Chapter 16 (<i>if applicable</i>).	
20.	Waste disposal and applicable sections of the Waste Generating Instruction have been discussed. Waste Generator qualified personnel available.	
21.	*RWP discussed.	
22.	ALARA review for new activities discussed.	
23.	*Expected radiological conditions discussed, including contamination and radiation levels. Methods to minimize exposure discussed.	
24.	Criticality Safety Evaluation discussed. Criticality Safety Officer may assist.	
25.	Actions to be taken in the event of emergencies, or upsets, or if any controls are exceeded, discussed (fire, criticality, glovebox overheat, SAAM/CAM alarm, CSOL limits, etc.).	· .
26.	*Recent problems, changes, lessons learned, and occurrences relative to the evolution discussed.	
27.	Potential shift changes, watch reliefs, and breaks discussed.	
28.	*Applicable NMSLs and/or CSOLs discussed. NSM 3.12 assignment made. Reminder made that satisfactory 3.12 is reported to the Evolution Supervisor prior to activity start, and changes requiring another NSM 3.12 discussed.	
29.	Open criticality infractions and deficiencies which impact the evolution discussed. Discuss Material at Risk (MAR) control (<i>if applicable</i>); steps to take if exceeded.	

WPF SWF	MO. 707-21002-00 Appendix 4 Page 4 of 4 PRE-EVOLUTION BRIEFING RECORD	. <u> </u>
30.	Egress procedures and egress routes and assembly areas discussed.	
31.	Unique postings in the work area discussed.	
32.	Escort requirements discussed and escort assignments made.	
33.	Provisions for housekeeping and final cleanup discussed.	
34.	*Open-ended questions asked to ensure participants understand the evolution and are aware of hazards involved, hazard controls, and responses expected during the evolution and procedural compliance requirements. Stop-work authority of individuals discussed. Watches synchronized if applicable.	
35.	*All questions have been adequately answered.	
	Market Control of the	

Date

Date

*Required for shortened PEB. See Section 6.3.3.1.

Evolution Supervisor

Configuration Control Authority

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Appendix 5 Page 1 of 2 POST JOB REVIEW CHECKLIST & INSTRUCTIONS

	rk Process Number: rk Title:	Building	707	Date	
	Supervisor:	Equip	ment Name: _		
		MatApple			
1.	Safety Barriers Were Effective	MARKET THE STATE OF THE STATE O	(A) (5) (5) (5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6		P.V. I
2.	PPE Appropriate				
3.	Hazard Analysis/Mitigation adequate				
4.	Safety Coordination and Support				
5.	Pre-job Briefing / Job Task Briefing	'\n			
6.	System or Component Were Ready for W	ork			
7.	Plant operating status appropriate	-			
8.	System/component operating status	-			
0	appropriate				
9.	Training identified was complete and appropriate.				
0.	Support Coverage Was Adequate				
	Environmental				
	Safety, Health				
	Radiation Safety				
	Operations				
	• Engineering				
	Maintenance		-		
	Planning/Scheduling				
11.	Environmental Barriers Were Effective				
	 Hazard analysis/mitigation adequately addressed 	′			
12.	Work Package Was Adequate				
	Work instruction appropriate				
	Work instructions comprehensive				
	 Contributing factors that helped job performance 				
	Tools, equipment, and or process				
13.	Regulatory requirements identified/complied with				
14.	Other:				

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Appendix 5 Page 2 of 2 POST JOB REVIEW CHECKLIST & INSTRUCTIONS

Comment Section						
Ref. No. (1-12)		Comment/Suggested Improvement				
			 			
						
	<u>. </u>					
			-			
Personnel Attend	ding:					
<u>Name</u>	<u>Initial</u>	Employee #	<u>Name</u>	<u>Initial</u>	Employee #	
		-		***************************************		
B						
PJR Review:						
		/		/		
Responsible Ma			Signature	· · · · · · · · · · · · · · · · · · ·	Date	
□ Submitted to	Lessons-Lean	ned Program. If so, su	ibmit the following] .		
Background:						
Lessons Learned	4.					

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Appendix 6 Criticality Drain Seal Solidification Instructions

	Criticality Drain Seal Solidification instructions
	Make copies of Appendix 6 for each criticality drain location identified on WPF. Record glovebox/chainveyor number in heading below.
6 C	RITICALITY DRAIN SEAL SOLIDIFICATION INSTRUCTIONS
F	OR GB / CHAINVEYOR:
6.1	ACTIONS
6.1.1	RAD OPS Perform pre-job contamination and radiation surveys.
	RAD/
	OPS Print Name Signature Date
NOTE:	 Steps 6.1.2.G and H can be performed at any time and must be prior to 6.1.3.A. SARANEX PPE shall be worn as directed by Radiological Operations.
6.1.2	CRAFT Perform the following:
	A. Measure 1½-pounds (3-Cups, or "pre-measured amount") of NOCHAR into a plastic bag. Place a mixing tool inside with the NOCHAR. Measure ½-pound (1-Cup, or "pre-measured amount") of NOCHAR into another plastic bag. (This ½-pound bag will be poured down the crit-drain from inside the glovebox.)
	WARNING Sharp edges could be present.
	B. Use "Cut-Resistant Gloves", as required, to remove the drip pan from crit-drain. Discard drip pan per applicable WGI.
	C. Unlatch the crit-drain top cover, if present, but DO NOT OPEN COVER.
	D. Place the 1½-pound bag of NOCHAR into a heavy-mil plastic bag. Secure this plastic bag around bottom of the crit-drain.
	E. RCT: Verify the installation of plastic bag controls.
	RAD / / / OPS Print Name Signature Date
	F. Open the crit-drain cover. Use NOCHAR material to absorb any oil spills inside plastic bags.
	G. Bag into the glovebox the ½-pound bag of NOCHAR.

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Appendix 6 Criticality Drain Seal Solidification Instructions

		WARNING Sharp edges could be present.							
	Н.		the glovebox, usod into the crit-dra		nt Gloves", as required	d, to remove the	cover that	is	
NOTE:	SA	ARANEX	PPE shall be wo	orn as directed	by Radiological Opera	ations.			
6.1.3			/ASTE INSPECT e following:	OR .					
	A.		he bag of NOCH crit-drain.	AR inside the ç	lovebox and add the	entire amount o	of NOCHAR	powder	
	B.	the ede	ge (this will be a se this process o xing tool. (Not	one application f adding NOCH	lovebox, add the NOO n). Using the mixing IAR powder and mixin Ild be at least four	g tool, stir the l ng, until no "sou	NOCHAR ipy" mixture	into the oil adheres to	
	C.				fication of oil performoplicable in Appendix		acceptanc	e criteria.	
	W	ASTE		1		1			
	•••		Print Name	,	Signature	,	Date		
				Sharp e	WARNING dges could be prese	ent.			
6.1.4		RAFT / Reform the	CT e following:						
	A.		Circle required rac ox/chainveyor.	diological contr	ol(s) to be used for cr	it-drain removal	from		
		Sleevin	g / Ventilated Ho	ood / Other:		· 			
	RA	AD		/		/			
	OP	PS	Print Name		Signature		Date		
	B.	Set up	radiological conti	rols as specifie	d by RCT.				
	C. RA		erify the installat	, -	cal controls.	/			
	OP		Print Name	•	Signature	· · · · · · · · · · · · · · · · · · ·	Date		

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Appendix 6 Criticality Drain Seal Solidification Instructions

	D.	Supervisor's power tools.	direction. App IH&S should	", as required, to propriate hearing be notified to pe Order OO-707-2	g protection sho rform sound lev	uld be worn whe	en operating policy compe	ortable
	E.	Seal / conta	in the opening	on glovebox/cha	ainveyor left by o	crit-drain.		
	F.	RCT: Verify	the containme	nt provides appr	opriate radiolog	ical controls.		
	RA	D		1		1		
	OP	S	Print Name		Signature		Date	
FAIL	JRE	TO MAINTA		WAF N 15 GRAMS TO LL RESULT IN A			R WASTE CO	NTAINER
	G.	Dispose of r	emoved crit-dr	ain per applicab	le WGI specific	to packaging cri	t-drain with N	OCHAR.
	H.			ealed, THEN pla pendix 3. N/A if		rning sign on wa	aste containe	· •
6.1.5	JO	B SUPERVIS	OR					
		If another cr to continue o	it-drain and/or	force transmitter in (Appendix 6) quired)				kD crew
	В.	If all crit-drai	in and force tra	ınsmitter seal wo	ork is completed	, go to Step 9.4.	1. (N/A if not	required)

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Appendix 7 Force Transmitter Seal Solidification Instructions

Note: Make copies of Appendix 7 for each Force Transmitter Assembly location identified on WPF. Record glovebox number in heading below.

glovebo	x nu	ımber i	in heading below.		ĺ			
7 FC	ORC	E TR	ANSMITTER SEA	L SOLIDIFIC	ATION INSTF	RUCTIONS FO	OR GB:_	
7.1 <i>A</i>	CTI	IONS						
7.1.1	CR/ Ens		e scale has been remov	ved from the top	of the Force Tra	ınsmitter Seal As	ssembly.	
7.1.2		OPS form p	re-job contamination ar	nd radiation surv	eys.			
	RAI OPS		Print Name	/	Signature		Date	
7.1.3		asure a	approximately 1-pound ixing tool inside with the		, or "pre-measul	red amount") of I	NOCHAR ii	nto a plastic bag.
NOTE:	IH&	S to e	valuate ladder use.					
7.1.4		AFT / F form th	RCT ne following:					
	A.	Set up Solidif	o barriers/signs around fication process IAW wi	work areas, as i th RCT direction	required. Install i. Ensure bag of	containment for NOCHAR is pla	Force Tran aced inside	smitter Seal containment.
	В.	RCT:	Verify the containment	provides approp	riate radiologica	Il controls.		
	RAI OPS	_	Print Name		Signature	/	 Date	
NOTE:			X PPE shall be worn as	directed by Rad	J	ions.	Date	
7.1.5			WASTE INSPECTOR ne following:					
	A.	Withir assen	n the containment, remonbly to gain access to o	ove these compo oil reservoir.	onents (as requir	ed): clamp bar, l	hanger, and	d inner can from
	B.	Using	the bag of NOCHAR in the mixing tool stir the oupy" mixture adheres t	NOCHAR into the	ne oil. Continue	adding NOCHA	R powder a	and mixing, until

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Annandiy 7

Docui WASTE	ment any corrective	actions as appl	icable in Appendix 2	/		
	Print Name		Signature		Date	
CRAFT						
Perform t	ne following:					
A. Reas	semble components	s back onto force	e transmitter assemb	oly.		
						<u></u>
			ebox over top of Ford	e Transmitter	Assembly	by apply
	contain the contain vy layer of tape ont			ce Transmitter	Assembly	by apply
a hea	vy layer of tape ont	o glovebox area			Assembly	by apply
a hea C. RCT: RAD _ OPS	Verify the containm	o glovebox area	propriate radiologica Signature	il controls.	Date	by apply
a hea C. RCT: RAD _ OPS	Verify the containm	o glovebox area	propriate radiologica	il controls.	Date	by apply
a hea C. RCT: RAD _ OPS D. Notify	Verify the containm Print Name Job Supervisor the	o glovebox area	propriate radiologica Signature	il controls.	Date	by apply
a hea C. RCT: RAD _ OPS D. Notify JOB SUP	Verify the containm Print Name Job Supervisor the	o glovebox area nent provides ap / Force Transmi	propriate radiologica Signature tter Assembly solidifi	ol controls. / cation is comp	Date leted.	
a hea C. RCT: RAD _ OPS D. Notify JOB SUP A. If ano contir	Verify the containm Print Name Job Supervisor the ERVISOR ther crit-drain and/o	o glovebox area nent provides ap / Force Transmit	propriate radiologica Signature	ork is necessar	Date leted. y. Direct	D&D crev